

# FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON, ALBERTA

31 AUGUST 1978

## ENERGY CONSERVATION THE SUGGESTION BOX

Two months ago, *Folio* published a short article in which the Office of Energy Management solicited comments and suggestions for items relating to energy conservation. Some of the comments that were received and the responses to them are published below. The "Suggestion Box" will be a continuing part of *Folio* in the future, and the Office of Energy Management continues to solicit questions or comments regarding energy conservation.

Energy conservation has been very topical during the past few years, but it is not simply a passing fancy. Concern for conservation has basic economics roots: while campus energy consumption has been decreasing, the cost of energy has been escalating. The "Suggestion Box" will not only be a place where individuals can comment about the energy conservation situation on campus, but it will also keep *Folio* readers informed about some of the basic changes that will be taking place in their environment in the coming months, such as the change in lighting policy mentioned in this month's article.

### SUGGESTION BOX

1. The following rather obvious (to me) suggestions for conserving energy are offered:

a. At the end of the working day, the last occupants of most areas of most buildings are the caretakers. Hence, all such people should be instructed to turn off all lights in offices and corridors when they have completed their work.

b. The density of lighting fixtures within the car parks is much greater than is really required and should, therefore, be reduced.

c. Lights within the carparks should be turned off during the daytime, and, especially, on weekends.

d. Reduce the density of lighting fixtures in offices, labs, corridors, etc. My office, which has a floor area of approximately 150 square feet is illuminated by twelve fluorescent tubes!

e. Eliminate external illumination of buildings such as the Humanities Centre. This would not only save energy but would also not draw so much attention to what is one of the least attractive university campuses in Canada.

Dr. D.P. Hube, Physics



Pictured above is part of the Remote Control Monitoring System in the General Services Building. The RCMS is one of the ways in which the Office of Energy Management maximizes energy consumption and minimizes the costs incurred. The RCMS controls and monitors various buildings (in this case it is the Biological Sciences Centre) for such things as building temperature. Eventually, most of the buildings on the campus will be part of the system.

a. It is currently the standard procedure for the custodial staff of Physical Plant Building Services to turn out lights. However, individuals should not rely on Building Services staff to turn lights off for them! The primary responsibility must be with the last person to vacate a lighted room.

b. Yes, we agree. The de-lamping program is currently underway and should be complete by the end of the current fiscal year.

c. Yes. Timers and photocells are being installed to turn lights off when not necessary. Interior areas must continue to be lit, however, for reasons of physical safety, as Car Parks are prime targets for vandalism and incidents of sexual attacks directed at females.

d. This is only a temporary situation. A team of two workers is reviewing the lighting in all interior rooms on campus. The new standard light levels in offices will be:

desk surface—540 lumens/m<sup>2</sup>\* minimum  
—760 lumens/m<sup>2</sup> maximum

ambient office illumination—220 lumens/m<sup>2</sup>

\*1 ft. candle = 10.763 lm/m<sup>2</sup>

Excess lights will be removed but allowance

will be made for task lighting as required. Typically, up to fifty percent of the fluorescent lamps in offices are found unnecessary.

e. This is a difficult area because any saving in energy is offset by a loss of aesthetic appeal, safety and security. Consequently, conservation in this area will have a lower priority with the people reviewing lighting needs. In the case of Humanities, if the flood-lighting was removed, other lighting would have to be installed to supplement existing street and sidewalk lighting to minimize probability of attacks on employees and students in the general area.

2. Further to the announcement in the 22 June *Folio*, I thought you might be interested in the attached article on Hospital Energy Costs (See pages 6-8, *The Alberta Hospitals Associations' Hospitala*, Vol. XVII, No. IV April 1978) entitled "Energy Conservation—A Case Study."

S. Stinson, RN, EdD  
Faculty of Nursing

*P.S. Also see attached clipping of computer program OFBOIL analyzing Boiler efficiency at Lehigh University.*

Thank you for the articles.

We take heart in Department of Physical Plant and Energy Management Office that St. Mary's Hospital, Troy, New York (Case Study) is outlining energy conservation methods and applications applied to lighting, heating and air conditioning systems similar to the program actively being pursued at the U of A.

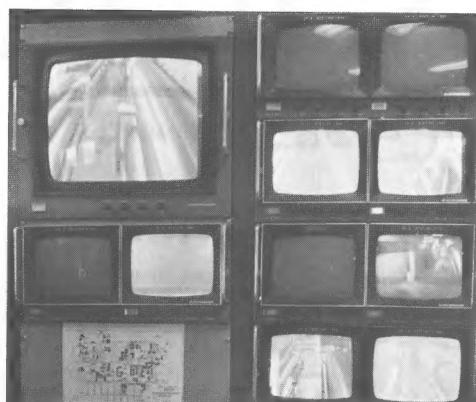
The report estimated potential savings in the 209 bed hospital at \$100,000 annually with at least \$35,000 savings with little more outlay than simple human effort. The potential for energy and cost savings at the U of A is clearly several times greater and can be achieved.

The U of A is presently installing a computerized boiler management facility in the University Heating Plant to optimize boiler efficiencies, which we feel will permit efficient gathering of data and more effective energy use in the Plant.

*3. An excellent way to save money (and decrease noise pollution) would be to silence all the bells, etc. that ring in various campus buildings to signal the start and end of classes. Both students and faculty should be responsible enough to know when those times are (i.e. by looking at any clock in any lecture hall) without the wasteful operant conditioning of the bells.*

*If you like this suggestion, you can start in the Dentistry/Pharmacy Building as our faculty has approved this action at our last General Faculty meeting.*

*Dr. Pagliaro  
Faculty of Pharmacy*



*The bank of screens above monitors the Service Corridors below the campus.*

In response to your letter, the issue of power consumption from class bells does not fit in with the present level of savings we are trying to recover from our efforts (i.e. working with motors greater than two kW power consumption).

Your suggestion may, however, have merit from a maintenance savings point of view, and as such will be turned over to the maintenance group for their evaluation.

It should be recognized that Pharmacy is but one of a number of users of the Dentistry/Pharmacy Building and the needs of all users would have to be evaluated. This matter should be reviewed by the Dentistry/Pharmacy Building Management Committee.

*4. I am curious about street lighting. How much power is used, how much does it cost? On campus, and in Edmonton. Did the removal of interior lighting compensate for the recent increase in exterior lighting? Were the new street lamps on campus designed with sky-pollution in mind?*

**NWHY**

Street lighting on campus accounts for approximately 800,000 kWh (\$14,000) annually. A further breakdown as to additions/deletions annually is not easily obtainable. Equivalent figures for the City of Edmonton are not at our disposal either.

A primary requirement for the additional exterior lighting was the security aspect. The design to accomplish this end addressed a number of design items, i.e. energy conservation, glare, light levels, aesthetics, etc. The present program of converting from mercury vapor (connected load 1500 kW) to sodium vapor in parking lots and on streets will drop connected power load by one half.

We are not sure what specifically you are referring to when you question "sky pollution" so cannot really address the question.

Regarding the de-lamping program, which

is half completed, the savings to date are estimated to be 8,500,000 kWh (\$145,000) annually.

*5. Abolish the Office of Energy Management, the savings will be considerable. RLTH*

The Office of Energy Management is striving for the day when it can report that energy waste on campus has generally been eliminated, and that the administration and the Board of Governors may now terminate the Office's duties. We must conclude that day has not yet arrived. However, we are still optimistic.

Direct your suggestions by mail to The Suggestion Box, Office of Energy Management, or \$SOURCE IDEA:ENERGY. SAVE on MTS terminals.

## SEARCH COMMITTEE FOR A PRESIDENT: PROGRESS REPORT

*The following information was received from John Nicol, Secretary to the Governors.*

### 1. Meeting Schedule

It was agreed to meet regularly on the second Wednesday of each month through the Fall.

### 2. Agenda

It was agreed to discuss the role and function of the President and the duties of the President, at the next two meetings.

The Committee is prepared to receive personal views on the rôle and function of the President, which are submitted in writing, from any members of the community.

### 3. Guidelines

The Committee reviewed *Guidelines* approved by the Board of Governors at its meeting on 4 August 1978.

### 4. Advertising

It was agreed to draw the advertisement for a President to the attention of the professional organizations in the Province for publication of a notice in their journals and newsletters.

### 5. Consultants

The Committee agreed to invite certain management consulting firms to make a brief oral and written presentation to the Committee at its next meeting on how they can assist in the search for a President of The University of Alberta, with an estimate of the cost and the time it will take. They are to be told that so far the Board of Governors has established a Search Committee which is representative of the constituent groups of the University, and has agreed on the selection process, and on minimum specifications for the position.

The Committee has still to examine the future rôle and responsibilities of the President.

Some response has been obtained to advertising the position, but no assessment has yet been made of the replies received.

## FOLIO

Inquiries concerning the placement of Notices and Advertisements in *Folio* and all other correspondence with the Editor should be addressed to:

*Folio*,  
Office of Community Relations  
423 Athabasca Hall,  
University of Alberta  
Edmonton, Alberta  
T6G 2E8  
Telephone number: 432-2325.

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In general, the Committee sees management consultants as being helpful in extending the search for qualified candidates through personal contact, and possibly in investigating the background of those who reach the short-list.

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## ESTHER FRASER 1919-1978

After a brief illness, Esther Fraser died suddenly on 23 August.

Many people from the University community knew Mrs. Fraser as a staff member in the Publications Office and later in the Office of Community Relations. One of her responsibilities was receiving advertisements for *Folio*, and during the time she was here she made many friends. Others knew Esther as the author of *The Canadian Rockies; Early Travel and Exploration*, a book that was originally published in 1969 and continues to be re-printed. Esther studied education at this University after her two children were grown, and it was here that she was encouraged to write. She scripted the radio school broadcasts, "Trailblazers in the Rockies," and her second book, a study of A.O. Wheeler, the surveyor of the Canadian Rockies for the Canadian Pacific Railway at the turn of the century, is in press at this time.

A memorial scholarship fund has been established in Esther's name, and it was her wish that the scholarship be used to help students in Religious Studies. Those people who wish to contribute to the Fund should send their donations to the Esther Fraser Memorial Scholarship Fund, in care of the Unitarian Church, 12530 110 Avenue, Edmonton, Alberta, T5M 2L5.

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## FALL COURSES FROM EXTENSION

The Faculty of Extension will be offering a variety of general interest courses this autumn. In the following list, unless otherwise indicated, courses offered during the week meet in the evening, and courses on weekends meet throughout the day.

Details of individual courses will appear in the "Non-credit Courses" column of *Folio* from time to time. Further information about course content, fees, enrolment limits, and so on may be obtained from the Faculty of Extension, 228 Corbett Hall, telephone 432-3033 (432-5069 for psychology and personal development courses).

Terrorism: National and International  
Instructor: Frances Adam

Dates: ten Tuesdays commencing 10 October  
The Ukrainian Experience in Canada  
Instructor: members of the Canadian Institute for Ukrainian Studies  
Dates: eight Thursdays commencing 19 October  
Tracing Your Family Tree  
Instructor: members of the Alberta Geneological Society  
Dates: eight Tuesdays commencing 3 October  
Fitness for Men  
Instructor: Art Burgess  
Dates: forty sessions, Mondays and Wednesdays from 2 October to 8 January  
Fitness for Women  
Instructor: Diane Steiner  
Dates: forty Mondays and Wednesdays from 2 October to 8 January  
Kom\*mun\*i\*kation\*s: Men, Media, and Messages  
Instructor: Roman Onufrijchuk and Ron Lazlock  
Dates: ten Mondays commencing 2 October  
Oh! Canada!—Current Dilemmas  
Speakers: Various  
Dates: noonhours, ten Wednesdays commencing 13 September  
Women in Canadian Writing  
Instructor: Catherine McQuaid  
Dates: ten Wednesdays commencing 11 October  
Canadian Military History  
Instructor: Howard Welch  
Dates: ten Mondays commencing 2 October  
Creative Women in Art  
Instructors: Bente Roed Cochran and Frances Klinge  
Dates: five Thursdays commencing 28 September  
Creative Women in Crafts  
Instructors: Bente Roed Cochran and Frances Klinge  
Dates: five Thursdays commencing 2 November  
Primitive Art  
Instructor: Frances Klinge  
Dates: ten Tuesdays commencing 26 September  
The Group of Seven  
Instructor: Bente Roed Cochran  
Dates: ten Wednesdays commencing 27 September  
Interior Design  
Instructor: Helen Bentley  
Dates (two sections): twenty Tuesdays commencing 3 October; twenty Wednesdays commencing 4 October  
Creative Stitchery and Design  
Instructor: Helen Bentley  
Dates: eight Thursdays commencing 5 October  
What to Listen for in Music  
Instructor: Alan Smith  
Dates: twelve Tuesdays commencing 19 September  
Children's Picture Books—The Basis of the

Literature Experience  
Instructor: Jon Stott  
Dates: eight Thursdays commencing 21 September  
Oral French (in gradations from Oral French I for beginners through Oral French V)  
Instructors: arranged with Department of Romance Languages  
Dates: twenty-five sessions Tuesdays and Thursdays, commencing 19 September; exception: Section A of Oral French I (twenty-five sessions Monday and Wednesday afternoons, commencing 18 September)  
Intensive German for Beginners I  
Instructor: arranged with Department of Germanic Languages  
Dates: twenty sessions Mondays and Wednesdays, commencing 2 October  
Intensive German for Beginners II  
Instructor and Dates: as above  
Beginners' German  
Instructor: arranged with Department of Germanic Languages  
Dates: twenty Tuesdays commencing 3 October  
German Conversation and Composition  
Instructor: arranged with Department of Germanic Languages  
Dates: twenty Wednesdays commencing 4 October  
Conversational Spanish, Part I  
Instructor: arranged with Department of Romance Languages  
Dates (two sections): twenty Mondays commencing 2 October; twenty Wednesdays commencing 4 October  
Conversational Spanish, Part II  
Instructor: arranged with Department of Romance Languages  
Dates: twenty Wednesdays commencing 4 October  
Swedish for Beginners  
Instructor: Marianne Morse  
Dates: twenty Mondays commencing 2 October  
Intermediate Swedish  
Instructor: Marianne Morse  
Dates: twenty Wednesdays commencing 4 October  
Second Look (women changing lifestyles)  
Instructors: Joe Bozynski, Rosa Spricer, Ko VanDonselaar  
Dates (four sections): ten Mondays commencing 2 October; ten Tuesdays (mornings) commencing 3 October; ten Tuesdays (afternoons) commencing 3 October; ten Wednesdays (afternoons) commencing 4 October  
Assertion and Communication Skills for Couples  
Instructors: Jim Beaubien, Karen Caesar  
Dates: Friday and Saturday, 24 and 25 November

Assertion and Personal Skills Training, Level I  
Instructors: Jim Beaubien, Karen Caesar  
Dates (two sections): ten Tuesdays commencing  
3 October; ten Thursdays commencing  
5 October

Assertion and Interpersonal Skills Training,  
Level II  
Instructors: Jim Beaubien, Karen Caesar  
Dates: Friday and Saturday, 22 and 23  
September

Bioenergetics—Introduction to its Meaning  
and Use  
Instructor: Jim Field  
Dates: three Wednesdays commencing  
4 October

Confronting Separation or Divorce  
Instructor: Queena Klein  
Dates: three Mondays commencing 16 October

A Consumer's Guide to Yoga  
Instructor: Byrov Sinha  
Dates: ten Wednesdays commencing 4 October

Coping with Loss  
Instructor: Betty Davies  
Dates: Friday and Saturday, 27 and 28 October

Couples Workshop for Relationship  
Enrichment

Instructor: Joyce Irvine  
Dates, Friday, Saturday, and Sunday  
3, 4, and 5 November

Dealing with Anger  
Instructor: Tariq Bhatti  
Dates: Saturday, 4 November

Development of Personal Potential  
Instructors: Ronna Jevne, Glen Marsh  
Dates: Saturday and Sunday, 21 and 22  
October

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## PEOPLE

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■ Amy E. Zelmer, Dean of the Faculty of  
Nursing, consulted for CIDA as a Health  
Education Specialist in northern Ghana  
from 16 June to 4 July of this year.

■ Edward Mozejko, Professor of Comparative  
Literature and Slavic Languages;  
G.H. Schaarschmidt, Professor of Slavic  
Languages; and T.M.S. Priestly, Associate  
Professor and Chairman of the Department  
of Slavic Languages; presented papers at the  
VIII International Congress of Slavists held  
in Zagreb, Yugoslavia, from 3 to 9 September  
1977.

Twelve papers were read by Canadian  
Slavists and the three from the University  
constituted the largest contribution by a  
single university in Canada. Nina Kolesnikoff,  
a recent recipient of a PhD Degree from  
the University's Department of Comparative  
Literature, also delivered a paper at the  
Congress. Their respective papers have been

published in a book entitled *Canadian  
Contributions to the VIII International  
Congress of Slavists*.

■ E.D. Blodgett, Chairman of the Department  
of Comparative Literature, recently gave a  
paper on "The Canadian Literatures in a  
Comparative Perspective" before a plenary  
session of the Association of Canadian and  
Quebec Literatures.

■ Vladimir Ignatieff has been elected an  
honorary member of the International Society  
of Soil Science, and he is the first Canadian  
to be so honored. Dr. Ignatieff, who  
obtained his MSc in Soil Science from this  
University in 1932, has been active in  
agriculture both nationally and internationally  
for many years. He lectured in the Department  
of Soil Science from 1936 to 1940, and  
following World War II he became active  
in the Food and Agriculture Organization of  
the United Nations. During the last ten years  
of his association with the FAO, he was  
Head of the Land and Water Use Division  
and as such was one of the most senior  
Canadians at that UN agency. While at FAO  
he prepared the first edition of *Efficient Use  
of Fertilizers*, a publication which has  
extensive worldwide use and for which he  
continued to be the editor until his  
retirement in 1970. The nomination for  
Honorary Membership was prepared and  
submitted by C.F. Bentley, former Dean  
of the Faculty of Agriculture and Forestry,  
and J.A. Toogood, Chairman of the  
Department of Soil Science, but the  
international respect for and appreciation of  
Dr. Ignatieff's work while at the FAO is  
evidenced by the fact that the nomination  
was made at the request and suggestion of  
many non-Canadians who worked with him.

■ Muriel A. Whitaker, Associate Professor  
of English, was invited to participate in the  
colloquium on "Le livre pour adolescents et  
ses fonctions" held at the Université des  
Sciences Humaines, Strasbourg, France, from  
29 June to 1 July. Her paper dealt with  
literature for Canadian teenagers.

■ Henry L. Janzen, Associate Professor,  
Department of Educational Psychology,  
recently gave an invited address to the  
International Council of Psychologists' annual  
conference held at the University of Surrey,  
Guilford, England. Dr. Janzen spoke on the  
topic: "The Process Model: Training School  
Psychologists in Western Canada."

■ Sheila Brown gave a workshop on Social  
Marketing, at the Annual Meeting of the  
Canadian Home Economists Association held  
recently in Calgary. Dr. Brown also gave  
an invited address on this topic to conclude  
the Conference, and she was interviewed  
by CFAC television for the program "Accent  
on Calgary."

# The University of Alberta *invites nominations and applications for the position of President*

It is expected that the appointee  
will take office in July 1979.

Nominations and applications with  
biographical data should be  
submitted to:

Mr. John Nicol  
Secretary to the Governors  
Room 3-20, University Hall  
The University of Alberta  
Edmonton, Alberta  
T6G 2J9

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## NOTICES

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### Dental Hygiene

The School of Dental Hygiene is accepting patients for oral prophylaxis (cleaning of teeth). For further information, telephone 432-4151 or 432-4458.

### Retirement Reception

There will be an informal reception to honor K. Kowalewski, Director of the Surgical-Medical Research Institute, on the occasion of his retirement. The reception will be held from 2 p.m. to 4 p.m. on 31 August in the SMRI Conference Room, 1064 Dentistry Pharmacy Centre. All of Dr. Kowalewski's friends and colleagues are invited to attend and join in expressing their good wishes to him.

### General Faculties Council Committee Vacancies

The Nominating Committee is seeking nominations for one member of the academic staff to serve on the following committees: *Selection Committee for a Chairman of the Department of Music*; *Review Committee for the Dean of Rehabilitation Medicine*; and *Review Committee for the Dean of Medicine*. Regulations governing the composition of the above committees require that one member, not a member of either the department or the faculty concerned, be elected by GFC.

Nominations are also sought for the following standing committees: *Equal Opportunities Committee* (one member of the academic staff); *Writing Competence Committee* (one member of the academic staff); *University Planning Committee* (one member of the faculty); and *Faculty Tenure Committees* (ten members of the faculty).

Those persons who have suggestions for nominations or who are interested in serving on the above committees are asked to contact the Secretary of the Nominating Committee, 2-1 University Hall, telephone 432-4715. It would be appreciated if a brief vita could accompany any nomination.

### Ranch Field Day

A Ranch Field Day was held at the University of Alberta Ranch on 2 August. The Ranch is located at Kinsella, Alberta. During the day, tours of range improvement and management sites were conducted by the Department of Plant Science. The Department of Animal Science presented research information on cattle breeding, nutrition, growth, and development, followed by a tour to view the cattle and a discussion period.

### Appointments

The following staff members in the Faculty of Education have received new appointments in their departments: K.G. Jacknike has been

appointed Associate Chairman of the Department of Secondary Education for a two year term, effective 1 July 1978; L.L. Stewin will serve for a year as Associate Chairman of the Department of Educational Psychology, effective 1 September 1978.

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## THIS WEEK AND NEXT

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*Listings must reach the Editor by 9 a.m. Thursday one week prior to publication. Written notification is preferred.*

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### 31 AUGUST, THURSDAY

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#### Cinematheque 16

7:30 p.m. *Persona* (Sweden, 1966). Directed by Ingmar Bergman and starring Liv Ullman and Bibi Anderson. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

#### Citadel/National Film Theatre

7:30 p.m. *Monterey Pop* (United States, 1968). Starring Janis Joplin, Ravi Shankar, The Who, and The Mamas and Papas.  
9:00 p.m. *Gimme Shelter* (United States, 1970). The Maysles Bros. record of The Rolling Stones in America. Zeidler Hall. For ticket information contact the Citadel Box Office, telephone 425-1820.

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### 1 SEPTEMBER, FRIDAY

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#### Faculty Club

*Downstairs.* TGIF buffet: prime rib of beef, baked ham, vegetable, potato, salad bar, dessert table, \$5.50.  
*Upstairs.* Chef's special: consommé royal, mimosa salad, scallops mornay, rice, fresh vegetable, dessert table, \$7.95. Also regular dinner menu. Reservations required.  
Entertainment: Executive Branch.

#### Cinematheque 16

7:30 p.m. *Persona* (Sweden, 1966). Directed by Ingmar Bergman and starring Liv Ullman and Bibi Anderson. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

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9:00 p.m. *Gimme Shelter* (United States, 1970). The Maysles Brothers' record of The Rolling Stones in America. Zeidler Hall. For ticket information contact the Citadel Box Office, telephone 425-1820.

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### 2 SEPTEMBER, SATURDAY

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#### Faculty Club

*Downstairs.* Saturday buffet: chicken Kiev,

rice, vegetable, salad bar, dessert table, \$5.50. No grill service.

*Upstairs.* Chef's special: clam chowder, Waldorf Salad, New York sirloin steak, potato, fresh vegetable, dessert table, \$7.95. Also regular dinner menu. Reservations required.

#### Cinematheque 16

7:30 p.m. *Persona* (Sweden, 1966). Directed by Ingmar Bergman and starring Liv Ullman and Bibi Anderson. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

#### Students' Union Theatre

8:30 p.m. Periscope Concert Productions Ltd. presents Cheap Thrills No. 3 featuring Wha-Koo, a 7 piece band from Los Angeles. Tickets \$4 at Mike's and HUB Box Office.

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### 3 SEPTEMBER, SUNDAY

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#### Queen Elizabeth Planetarium

2 p.m. "Magic Sky," a program for children ages 3 to 7 years. Children must be accompanied by an adult. Admission is 50c for children up to age 12 and \$2 for adults.

#### Citadel/National Film Theatre

8 p.m. *Outrageous* (Canada, 1977). Directed by Richard Benner. Zeidler Hall. For ticket information contact the Citadel Box Office, telephone 425-1820.

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### 4 SEPTEMBER, MONDAY

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#### Football

2 p.m. Golden Bears vs. the University of Saskatchewan Huskies. Varsity Stadium. Tickets at W1-34 Physical Education Centre or at the gate.

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### 6 SEPTEMBER, WEDNESDAY

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#### Queen Elizabeth Planetarium

2 p.m. "Magic Sky," a program for children ages 3 to 7 years. Children must be accompanied by an adult. Admission is 50c for children up to age 12 and \$2 for adults.

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### 8 SEPTEMBER, FRIDAY

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#### Faculty Club

*Downstairs.* TGIF buffet: breast of chicken cordon bleu, saffron rice, vegetable, salad bar, dessert table, \$5.50.  
*Upstairs.* Chef's special: strawberry soup, Waldorf Salad, rack of lamb, fruit rice, fresh vegetable, dessert table, \$7.95.  
Entertainment: Executive Branch.

#### Students' Union Theatre

7 p.m. and 9:30 p.m. *The One and Only* (United States, 1978). Directed by Carl Reiner and starring Henry Winkler and Kim Darby. Tickets available at the HUB Box Office.

## 9 SEPTEMBER, SATURDAY

### Faculty Club

*Downstairs.* Saturday buffet: grilled lamb chops, potato, vegetable, salad bar, dessert table, \$5.50. No grill service.

*Upstairs.* Chef's special: sherry consommé, tomato salad, seafood brochette, rice, fresh vegetable, dessert table, \$7.95. Also regular dinner menu. Reservations required.

### Students' Union Theatre

7 p.m. and 9:30 p.m. *High Anxiety* (United States, 1978). Directed by Mel Brooks and starring Mel Brooks and Madeline Kahn. Tickets available at the HUB Box Office.

## EXHIBITIONS AND PLAYS

### Provincial Museum

*To 6 September.* A historical display of most of the Commonwealth Games sports, wartime track and field meets, and Edmonton's lacrosse team of 1922. Archives Lobby. *Continuing.* "Man in his Environment," an exhibit circulated by the Smithsonian Institute in Washington, showing the interrelated problems which all human beings must face. Orientation Gallery.

*Continuing.* "Canadian Nature Art '78," an exhibition of paintings from nature artists across Canada. Orientation Gallery.

*To 4 September.* "The Legacy: Contemporary British Columbia Indian Art," an exhibition of art and artifacts representative of the lifestyle and culture of the West Coast Indians.

*To 6 September.* "Sports in Alberta," an exhibition featuring photographs and manuscript material from the Provincial Archives.

### University Art Gallery and Museum

*From 5 September.* An architectural exhibition by Douglas Cardinal.

### Centennial Library

*From 5 September.* An exhibition of photography by David Goorevitch. Photography Gallery.

### Graphics

*To 9 September.* "Visual Symphony," featuring recent engravings by Francine Gravel.

### Devonian Botanic Garden

A collection of native and introduced plants used for teaching and research, located 9.7 km west on highway 16 and 14.5 km south on highway 60. Open from 1 p.m. to 6 p.m. daily.

### Theatre 3

*To 3 September.* *Sizwe Bansi is Dead.*

Directed by Ernie King. 8:30 p.m. Theatre 3. Tickets available at Theatre 3 and at the door. For information call 426-6870.

### Special Collections

*Continuing.* "Canadian Prairie Literature:

Nineteenth Century Roots and Twentieth Century Growth." 037 Cameron Library. *Continuing.* "The Tercentenary of John Bunyan's *Pilgrim's Progress*," 037 Cameron Library.

## SURPLUS EQUIPMENT LISTING

*The equipment listed below has been declared surplus. For further information about the purchase of this equipment or the disposal of any of your department's surplus equipment consult Bonnie O'Dwyer or Roy Bennett, telephone 432-3208.*

16 Bin GBC Collator  
1 Addo X Mechanical Calculator  
1 Portable electric bottle washer

*For further information please contact*

*D.C. Wighton, telephone 432-3606*

1 1T1 725 Silent 700 Portable u/I case terminal with acoustic coupler

1 Upper/Lower Case terminal with acoustic coupler

*For further information please contact Stephen Sutshen, telephone 432-4768.*

## RESEARCH GRANTS

### Granting Agencies: Application Deadlines

This list of deadline dates for submissions to granting agencies for research funds, exchange programs, and travel grants is published every month in *Folio*. In order to allow sufficient time for processing, all applications should reach the Research Grants and Contracts Office at least ten days before the deadline date. Where other University resources are involved, the time requirement may be much longer than ten days and such applications should therefore be submitted well in advance. An extra copy of the application should be provided for the Research Grants and Contracts Office.

Further information may be obtained by consulting the *Calendar of Granting Agencies for Research Funds, Exchange Programs, and Travel Grants*, which is available in the offices of Deans, Directors of Institutes and Centres, and Department Chairmen, or by telephoning the Research Grants and Contracts Office, 432-5360. Note: Although the Calendar is updated on a continuous basis, *the following information could be subject to change without notice.* If staff members have advance information on forthcoming changes, the Research Grants and Contracts Office would appreciate being advised. Code: (R) Research funds; (E) Exchange programs; (T) Travel grants.

Calendar source number	Code	Granting agency	Deadline date
(10)	R	Agriculture Canada	1 Oct.
		Extra-mural Research	15 Dec.
		Operating Grants	
(17)	R	Alberta Environmental Research Trust	1 Oct.
(25)	R	American Philosophical Society	6 Oct.
			7 Dec.
			9 Feb.
			6 Apr.
(27)	R	Arthritis Society	10 Aug.
			15 Oct.
(56)	R	Canada Council—Killam Program	1 Oct.
(75)	R	Canadian Cystic Fibrosis Foundation	15 Oct.

(85)	R	Canadian Heart Foundations	1 Oct.
(156)	R	Department of National Health and Welfare—Research on Drug Abuse	1 Oct.
(259)	R	Multiple Sclerosis Society of Canada	1 Oct.
(300)	R	Natural Sciences and Engineering Research Council Canada—Major Installation Grant	1 Oct.
(302)	T	Natural Sciences and Engineering Research Council Canada—Nuffield Visiting Lectureships in Science	1 Oct.
(350)	R	James Picker Foundation—Picker Scholarship	1 Oct.
(390)	R	Social Sciences and Humanities Research Council	15 Oct.
			15 Jan.
			15 July
(400)	T	Social Sciences and Humanities Research Council	1 Oct.
(420)	R	US Department of Health, Education and Welfare:	
		Renewals	1 Oct.
			1 Feb.
			1 June
		New and Supplemental	1 Nov.
			1 July

## POSITIONS VACANT

### Non-Academic Positions

*To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 25 August.*

Clerk Steno I (\$695-\$772)—Surgery  
Clerk Typist II (\$695-\$803, term)—Education Field Services; Health Service (A-V Educ.)  
Clerk Typist II (\$695-\$803)—University Health Services; Sociology; Office of the Comptroller; Central Stores; Physical Plant (two positions); Housing and Food (HUB)  
Clerk Steno II (\$695-\$830, term, trust)—Faculty of Extension  
Clerk Steno II (\$695-\$830)—Animal Science; Elementary Education; Agricultural Engineering; Geography; Boreal Institute; Extension (two positions)  
Clerk Steno II (\$695-\$830, term)—Physical Education  
Library Clerk II (\$695-\$830, term, trust)—Canadian Institute of Ukrainian Studies  
Dental Records Clerk (\$748-\$895)—Dentistry  
Clerk Typist III (\$748-\$895)—Educational Research; Art and Design; Plant Science  
Clerk Typist III (\$748-\$895, term)—Office of the Registrar; English  
Senior Clerk (\$748-\$895)—Special Sessions  
Clerk Steno III (\$772-\$929)—Civil Engineering; Sociology; Provincial Laboratory; Library Science; Chemical Engineering; Psychology; Mineral Engineering (two positions); Pharmacy; Drama; Boreal Institute  
Data Entry Operator I (\$772-\$929)—Rural Economy  
Programmable Typewriter Operator II (\$803-\$969)—Technical Services, Graphics  
Admission Records Trainee (\$803-\$969)—Office of the Registrar (six positions)  
Library Assistant I (\$803-\$969)—Boreal Institute for Northern Studies  
Medical Steno (\$830-\$1,009)—Medicine and Psychiatry



Secretary (\$863-\$1,053)—Canadian Institute of Ukrainian Studies; Athletic Services; Office of the Registrar; Institute of Law Research and Reform; Vice-President (Finance and Administration); Physical Education; Business Administration and Commerce

Library Assistant II (\$537-\$657, part-time)—Business Administration and Commerce

Art Storeman I (\$598-\$895, part-time)—Art and Design

Computer Assistant I (\$695-\$830)—Computing Services

Computer Assistant II (\$803-\$969)—Office of Administrative Systems

Technical Assistant (\$830-\$1,009)—Technical Services (Electronics)

Audio-Visual Technician I (\$895-\$1,096)—Language Laboratory

Chemical Technician I (\$895-\$1,096, term, trust)—Chemistry

Technician I (\$895-\$1,096, trust)—Pharmacology

Technician I/II (\$895-\$1,243)—Provincial Laboratory; Industrial and Vocational Education

Technician I/II (\$895-\$1,243, trust)—Physiology

Graphics Technician I/II (\$895-\$1,243)—Technical Services, Graphics

Technician II (\$1,009-\$1,243)—Pathology

Farm Equipment Operator (\$1,009-\$1,243)—Animal Science

Technologist I (\$1,009-\$1,243)—Surgery

Technologist I (\$6.65 - \$8.00/hour, trust)—Home Economics

Electron Microscope Technician II (\$1,009-\$1,243, trust)—Anatomy

Machinist Technician II/III (\$1,143-\$1,611)—Technical Services (Machine Shop)

Engineering Technologist III (\$1,243-\$1,543)—Physical Plant, Engineering

Typographical Tradesman IV/V (Customer Contact) (\$1,243-\$1,682)—Printing Services

Dental Technician III (\$1,298-\$1,611)—Dental Clinical Sciences

Machinist Technician III (\$1,298-\$1,611)—Physics (two positions)

Programmer/Analyst III/IV (\$1,415-\$2,104)—Office of Administrative Systems

Graphics Supervisor (\$1,543-\$1,923)—Technical Services

Operations Manager (\$1,759-\$2,201)—Physical Plant

*The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board in 512 Cameron Library, should be consulted for further information about position requirements and availability.*

Library Clerk III (\$748-\$895)—Cataloguing

Library Assistant I (\$803-\$969)—Cataloguing

Library Assistant II (\$895-\$1,096)—Education Library

## ADVERTISEMENTS

*All advertisements must be received by 9 a.m. the Friday prior to publication. Rate is 15 cents per word for the first week and 5 cents per word for subsequent weeks ordered before the next deadline. Minimum charge is \$1. Ads must be paid in advance and are accepted at the discretion of the Editor. We regret that no ads can be taken over the telephone. For order forms or further information, telephone 432-2325.*

### Accommodations available

For sale by owner—1,756-square-foot home in executive Blue Quill. Fully carpeted, four-bedroom split level home includes 2½ baths, main-floor family room with tyndalstone fireplace and patio doors, bright, airy kitchen, spacious living and

dining room, and impressive entrance foyer. This beautiful home also has a double garage and is located on a large landscaped lot. Telephone 436-3617 or 425-0110, extension 205.

Will trade five-acre Vancouver area lot for parcel of similar value in west Edmonton region. Lot is in Belcarra Park area, two miles north of Simon Fraser University, overlooking Bedwell Bay. Or will sell. Asking \$75,000; terms available. Telephone 487-3310 after 4 p.m., weekdays or weekends.

For sale—attractive Belgravia bungalow located on a quiet tree-lined street. This home features 3 bedrooms, large living room, the beauty of hardwood floors, sparkling bath, and bedroom and dark room in basement. Recently redecorated. Close to schools and bus. Telephone Dorothy Hamilton, 439-7371; 436-8509. Kellough Realty.

For sale by owner—3-bedroom bungalow, 1,200 square feet, revenue from basement suite, garage, ideal for large family. 434-6142.

For rent—well-maintained upstairs of bungalow near University; semi-furnished. \$380 plus utilities. Available 1 September. 488-0716 between 5:30 - 7 p.m.

For sale by owner—Glenora 3-bedroom, 2,000-square-foot semi-bungalow on ravine lot. \$112,300. 452-9039.

For sale by owner—half duplex, Ottewell, 3-bedroom bungalow, 1,000 square feet, garage, rumpus room, 5 minutes downtown. 434-6142.

For rent—Lakefront furnished house, Pigeon Lake (Mulhurst). 1 October - 1 April. \$160 monthly. R. Griffel. Telephone 389-3857.

Young couple has large house (101 Avenue - 122 Street) to share with person interested in helping with occasional babysitting (when child asleep) and/or work around house in return for reasonable rent. Rosemarie or Vince, 482-2000. Opportunity: janitorial work, hours to suit, if interested.

For rent—15 September 1978 - 31 August 1979. Furnished 3-bedroom house, 1½ baths, finished basement, double garage. Northwest Edmonton. \$550. References, damage deposit. 432-3518, days.

For sale—former show home on south side: 2 storey with 4 bedrooms upstairs and full bathroom off master bedroom. Quality finishing includes air conditioning, built-in vacuum system, intercom. Telephone Denise Rout, 432-7398 or Liz Crockford, 434-0555; or 436-5250, business. Spencer Real Estate.

For sale by owner and designer—incomplete custom-built 2,100-square-foot cedar home, requiring 2 month's work to complete. Near University. Solid oak cabinets, Jennair double oven, central vacuum, wall speakers, bay and bow windows, 400-square-foot terrace. Telephone 434-0853, 462-5994 after 5 p.m.

Low rent for responsible tenants. Three bedrooms, finished basement, double garage. Belgravia. \$500. 436-0074.

For sale—Riverbend split level home for \$126,500. 5 bedrooms, huge master bedroom and dining room, fireplace in family room, double garage. Telephone Denise Rout, 432-7398 or Liz Crockford, 434-0555; business, 436-5250. Spencer Real Estate.

Renting—3-bedroom bungalow near Capilano Mall. Non-smoking couple preferred; no pets. \$395. September or October 1978 to March or April 1979. 469-1777.

For rent—beautiful 3-bedroom ravine house. 469-2437, evenings.

Rooms for rent. 10832 75 Avenue. 439-1936.

For sale—unique home within walking distance of campus. Features open fireplace, spiral staircase to upper level where spacious master bedroom has patio doors and deck overlooking attractively treed and fenced grounds. Well designed kitchen with floating island; completely separate entrance to lower level which could be developed for

revenue. Price \$69,500 with good terms available. Telephone Jerry, Willes Realty, 433-9406; 435-6878.

For sale—all the work is done in this beautiful 3-bedroom bungalow in Devon. The charming entrance will meet with your approval. Large L-shaped living, dining room features 8-foot china cabinet. Good size family room with fireplace and patio door. Basement fully developed with bedroom, laundry, bath, game and recreation room. Fenced and landscaped. Telephone Ingrid Laube, 987-2968; Block Bros., 986-6262.

Renting—2-bedroom house, Jasper Place. 1 September - 30 April. \$325 monthly plus utilities. Rose, 432-4770, days; 455-8948, evenings, weekends.

For sale—build equity in your home for only \$48,900. Comfortable condominium with 2 bedrooms, in-suite laundry, well planned kitchen, ample storage. Telephone Denise Rout, 432-7398; business, 436-5250. Spencer Real Estate.

Large, quiet, furnished room across street from University. Private bathroom, linen supplied, private telephone available. Male graduate student preferred. No cooking. 433-7197.

Wanted—girl to share house with three others. Express bus to University. 469-9217.

For sale—Aspen Gardens ravine area. Three bedrooms. Fireplace. Unique basement development. Three sets plumbing. Double garage, deck off dining area, bright kitchen. Good treed lot. \$87,500. Call Mrs. Pat Anderson, Royal Trust. 435-4869, 434-4460.

For sale—Immaculate three bedroom bungalow in Allendale. Convenient southside location across from park. Fully developed basement, double garage and fireplace are features as well as super built-ins in the kitchen; dishwasher and oven. Won't last. Contact Faye Lund, Block Bros. 436-4240, 436-5355.

River valley view—1,500 square feet luxury furnished suite available 1 November for eighteen month lease. Amenities include two color TV's, five major appliances, pool, sauna, whirlpool, underground parking. Adults only. No pets. Management approval required. 482-7271.

For rent—Non-smoking female to share nice house in Beverly with same. September to April. \$200 plus utilities. Over twenty-five preferred. 432-5407 weekdays.

Furnished apartments for rent. 10218 99 Avenue. Parking. \$300 to \$475. Telephone 423-2361, 432-7238.

Renting spacious two bedroom, 1½ bath. Completely and elegantly furnished suite. Quality highrise. All services and amenities included. Available 1 October for seven months. Ten minutes from University. References. \$480 per month. 482-2190.

Cosy house(s) to share with mature responsible person. 439-4072 evenings.

To share—Luxury two-bedroom apartment condominium with responsible woman over twenty-five. Includes own bedroom and bath, underground parking and use of pool and sauna. Located on direct route to University. Rent \$315 per month with option to invest as part owner. Call 434-3727 after five.

For rent—four-bedroom split level, carpeted, two bathrooms. Appliances optional, double garage. \$550. Telephone 484-5390 after six.

Luxury accommodation in private country club in Las Vegas. Available for one week in the winter months. Situated on "The Strip." Complete facilities including airport limousine pick-up. For further details telephone 488-9207 after 7 p.m.

For sale—University area. Nicely designed three bedroom home. Features large combination living-dining room. Deck off kitchen. Large lot. Asking \$78,500. Call Pat Anderson, Royal Trust. 435-4869, 434-446- residence.

#### Accommodations wanted

Instructor requires fully or partly furnished apartment or house to rent or sublet September - May.  
Sandra, 452-0825.

#### Automobiles and accessories

For sale—1974 Suzuki 380GT, excellent condition, 2,800 original miles, roll bars, backrest. \$895. 462-3453.

Must sell—1978 deluxe Rabbit, automatic, 9,000 miles. Offers. 434-6142.

1978 VW Rabbit diesel, 3 200 km, custom 2-door 963-3238; 432-3414.

1976 Toyota Corolla 2-door hardtop; 1,200 cc. Good condition. \$2,800. 435-1882.

1975 Mercury Bobcat stationwagon, Villager, options, radio, rear window defogger, automatic, 20,000 miles; excellent condition. 432-3297; 436-3711.

1974 Dodge Colt, 31,000 miles, excellent condition. 439-1052; 432-2420.

Moving. Must sell: 1972 Volvo 142S, very good condition, \$1,900; 1972 Mustang Grande, superb condition, V8, ps, pb, 50,000 miles, \$2,800. Phone 435-7924.

#### Goods and services

Text processing consulting, especially computer typesetting using MTS/TEXTFORM. Telephone Vic Yanda, 487-3310 after 3 p.m. weekdays.

Mountain wilderness holiday at the Black Cat Ranch near Jasper. Two-day weekend, \$50, including meals and room. Write: c/o PB Guest Ranch Ltd., Box 542, Hinton, Alberta, T0E 1B0, or telephone 452-0710.

Do you want to start a publishing business? Printing press for sale, rent, or for use in business for share of revenue: A.B. Dick model 360 press, and also model 1100 platemaker; three years old, but only used eight months. Telephone 487-3310 after 4 p.m. weekdays, or weekends.

Experienced typist. Variety of type styles, symbols. Quality work. 435-4407; 435-5006.

Seabri Sailboats—Seaspray (15-foot catamaran) and Kolibri (12-foot monohull). 11408 58 Avenue. 434-3309.

Expert typing—theses, etc. 455-0641.

Antiques from England. Furniture—all periods: tables, chairs, sideboards, cabinets, stools. Porcelain: Derby, Doulton, Wedgwood, Dresden, Oriental, Art Nouveau; Art deco, commemoratives, cloisonné, dolls, clocks, jewellery, gifts, collectables.

We also buy these items. Mary Goulden Antiques. From 137 Avenue and 50 Street, drive five miles northeast, then 1½ miles east to Horsehill Hall. 1 - 8 p.m., Thursday, Friday, Saturday, Sunday. 973-3656 or 475-8139.

Master Painters—five years' experience. No job too large or small. Specializing in prompt service. 434-4833. Dressmaking and alterations. Elizabeth Hamilton. 482-6162.

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Theses, manuscripts, and publications expertly typed at a reasonable cost, using IBM Selectric correcting typewriters. Raffin and Hart Office Services. 9203N 112 Street. HUB Mall. 432-7727.

The Coffee Grinder—Edmonton's newest coffee house. Capitol Square, main floor (rear) 10065 Jasper Avenue. Specializes in coffees, soups, salads, sandwiches, pastries.

Good Neighbour Fence Company—Quality wood fences, patio decks, light construction. 433-6794 or 433-9764.

Speech Arts lessons: oral interpretations and voice production. Beginners and intermediates. Esther Wilcox Hudson, 469-2147.

Typing in English, French or German by experienced secretary. Telephone Frances, 433-3023.

Tiwoic Concrete—specializes in driveways, patios, sidewalks. 475-1670.

Singing lessons. Studio near University. Children only. Edith-Mary Smith, 436-4780.

Fresh Alberta lamb, freezer ready. About \$1.60 pound. 963-3238; 432-3414.

Drafting services for theses, papers, etc. Fast service at reasonable rates. Quality work. 462-3287.

Experienced piano teacher, Master's degree, will accept students at all levels. Lansdowne. 436-8464.

Yoga—keep-fit Yoga course for beginners starts

20 September. Classes held Wednesdays at University. Instructional fee on cost-sharing basis. Registration at 6:15 p.m., 13 September, room 9, floor 14, Tory Building. Direct late inquiries to Box 184, University Post Office.

Typing Services—18 years' experience. 462-9375. Lovely hand made quilts from the Maritimes. 433-8392 or 432-3926.

Responsible woman will do house cleaning (hourly), or babysit in your home. 487-5920.

Piano lessons. All grades, all ages. Belgravia area. 436-2587.

Must sell high quality colonial crib with 2 dropsides with one extra side to convert to youth bed. Extra firm mattress, bumper pad, matching dresser. All for only \$200. 432-6142.

Require babysitter for 18 month old. Duggan area or University vicinity. 434-7029 after 6 p.m.

Hoover washer/spin dryer. \$190. 426-1320.

Practice piano, \$450; Akai turntable, \$175; man's caribou parka, made in NWT, \$100; Karrimor Backpack, \$40; fridge, \$20. 434-0258 after 6 p.m.

Large colonial chesterfield and chair; entertainment centre (6 feet long; suitable for TV stereo, plants); must sell, going overseas; 488-9207.

Curtains, stacking chairs, electrical appliances, ladies' downfilled jacket, ladies' ski boots (7½M), plants, household and kitchen items. Must sell, going overseas. 488-9207.

## UNIVERSITY OF ALBERTA CREDIT UNION

8920 112 Street, HUB Mall 432-3256

### SERVICE AND RATE REVIEW

#### SAVINGS

##### Plan 24

Interest: 6%

Calculated DAILY. Paid MONTHLY

##### Blue Chip

Interest: 7%

Calculated MONTHLY. Paid SEMI-ANNUALLY

##### Term Deposits

Interest: up to 9%

5-year Maximum

##### Chequing Accounts

Monthly Statements

##### Share Accounts

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